

INDEX.

- A**CCIDENT, A Terrible, . . . 86
 Acid Fixing Bath, A Permanent, 478
 Adulteration of Paper Stock, . . 65
 Aerial Perspective, X. Smith, . . 7
 Photography, 472
 Alcoholic Solutions, 287
 Alleged Inferiority of American Plates, Etc., 53
 Aluminum Tripods, 428
 Amateur Society of New York, 194
American Amateur quoted, . . 53
 American Films, Alleged Inferiority of, 53
 American Philosophical Society, Mention of, 284
 Amidol, 38, 44, 137
 Some Additional Notes on, Julius F. Sachse, 155
 Chemistry of Development, . 315
 Ammonium Hyposulphite, . . 381
 Sulphocyanide of, 381
 Anachronism in Art, 354
 An Incongruity, 40
 Aristotypes, Full Instructions, . 33
 Toning, 34
 Fixing, 34
 Burnishing, 35
 Aristotype, Bradfisch & Pierce, 197
 Arnold, Sir Edwin, 507
 Arctic Explorations, Hand Camera in (Illustrated), Wm. E. Meehan, 5
 Snapshots, Wm. E. Meehan, 87
 Art, A Neglected, X. Smith, . . 255
 Art in Portraiture, 241
 Art Gallery, A New, 546
 Astronomer's Measures, 469
 Astronomical Photography, . . 377
 Awards, Sixth Joint Exhibition, 218

BACHE, PROF. R. MEADE,
 Paper by, 533
 Balloon Photography, W. N. Jennings, 357
 Julius F. Sachse, 384
 Balloon Photography, 470
 Batton, W. B., Paper by, . . . 303
 Baldock, J. H., Paper by, . . . 208, 270
 Bedding, Thomas, Paper by, . . 493
 Bird's Feathers, The Color of, Witmer Stone, 163
 Black Stain for Wood, 238
 Blemishes, Reducing, 90
 Blue Process, The, 577
 Blue Book, 338
 Blue Prints, To Brown, 127
 Bombarded by Cameras, 332
 Boye, Prof. Martin H., Mention of, 369
 Portrait of, 375
 Bromide Print, The Largest, . . 231
 Bromide, First Application of, . 283
 Bromide, Action of with Various Developers, 462
 Bromide Prints, Formulae, . . 481
 Burglar, A Photographic, . . . 529
 Burnham, Prof. W. S., Paper by, 268
 Burton, Prof. W. K., Paper by, 170, 293
 The Concentric Lens, 59

INDEX.

- A**CCIDENT, A Terrible, . . . 86
 Acid Fixing Bath, A Permanent, 478
 Adulteration of Paper Stock, . . 65
 Aerial Perspective, X. Smith, . . 7
 Photography, 472
 Alcoholic Solutions, 287
 Alleged Inferiority of American Plates, Etc., 53
 Aluminum Tripods, 428
 Amateur Society of New York, 194
American Amateur quoted, . . 53
 American Films, Alleged Inferiority of, 53
 American Philosophical Society, Mention of, 284
 Amidol, 38, 44, 137
 Some Additional Notes on, Julius F. Sachse, 155
 Chemistry of Development, . 315
 Ammonium Hyposulphite, . . 381
 Sulphocyanide of, 381
 Anachronism in Art, 354
 An Incongruity, 40
 Aristotypes, Full Instructions, . 33
 Toning, 34
 Fixing, 34
 Burnishing, 35
 Aristotype, Bradfisch & Pierce, 197
 Arnold, Sir Edwin, 507
 Arctic Explorations, Hand Camera in (Illustrated), Wm. E. Meehan, 5
 Snapshots, Wm. E. Meehan, 87
 Art, A Neglected, X. Smith, . . 255
 Art in Portraiture, 241
 Art Gallery, A New, 546
 Astronomer's Measures, 469
 Astronomical Photography, . . 377
 Awards, Sixth Joint Exhibition, 218

BACHE, PROF. R. MEADE,
 Paper by, 533
 Balloon Photography, W. N. Jennings, 357
 Julius F. Sachse, 384
 Balloon Photography, 470
 Batton, W. B., Paper by, . . . 303
 Baldock, J. H., Paper by, . . . 208, 270
 Bedding, Thomas, Paper by, . . 493
 Bird's Feathers, The Color of, Witmer Stone, 163
 Black Stain for Wood, 238
 Blemishes, Reducing, 90
 Blue Process, The, 577
 Blue Book, 338
 Blue Prints, To Brown, 127
 Bombarded by Cameras, 332
 Boye, Prof. Martin H., Mention of, 369
 Portrait of, 375
 Bromide Print, The Largest, . . 231
 Bromide, First Application of, . 283
 Bromide, Action of with Various Developers, 462
 Bromide Prints, Formulae, . . 481
 Burglar, A Photographic, . . . 529
 Burnham, Prof. W. S., Paper by, 268
 Burton, Prof. W. K., Paper by, 170, 293
 The Concentric Lens, 59

CALIFORNIA CAMERA CLUB, . . .	51, 194, 240, 526
Camera Club, New York City, . . .	139
University of Penna., . . .	28, 146
Carbon Print,	231
Printing,	133
Printing, W. A. Cooper, . . .	447
Carbutt, John, Paper by, . . .	407
Careless versus Careful Work, X. Smith,	123
Celloidin Paper,	236
Cerium, Salts of,	238
Chaldean Art, A Recent Find, . . .	525
Chart for Testing Lenses,	99
Charter Granted, Photographic, . .	40
Charity, A Worthy Cause for, . . .	188
Chemistry of Development,	40
Chinese Registration Act, Attempt to Evade,	101
Ci'y Survey Work, Photographing,	427
Civil and Military Photogrammetry, R. Meade Bache, . . .	533
Clearing Negatives Developed in Impure Water,	479
Clearing Solution,	531
Clemons, John R., Communication by,	97
Club Types,	220
Coarse-Grained Negatives, How to Prevent, M. A. Seed,	411
Coating Zinc Trays,	287
Coloring Brass,	290
Color Blindness, Remedy for, . . .	557
Photography,	330
Scenes, When and How to Use, . . .	408
Compass, Self-Recording,	463
Compliment, A Well-Deserved, . .	191
Concentric Lens, The, W. K. Burton,	59
Experiments With,	63
Congress Auxiliary, Photographic,	38

Cooper, Charles, Paper by, . . .	394
Cooper, W. A., Paper by, . . .	447
Copying Ink,	478
Cornelius, Robert, Mention of, . .	369
Portrait and Obituary,	420
Counterfeit Note, A Photographic,	434
Courtesy in Reception-Room, . . .	122
Cramer, G., Paper by,	404
Credit Where Due,	471
Cutting Glass, Useful Hints, . . .	317

D AGUERREOTYPES, Cleaning and Restoring,	46
Reproduction of,	107
Daguerreotype, The,	186
Dana, of New York, Mention of, . .	196
Dark Room, Ventilation in the, Edgar Richards,	118
Dark Slides, Novel,	95
Dark Rooms at the Fair,	334
Free,	340
Day, The Length of,	127
Dead Black, A,	578
Defective Photographic Apparatus,	470
Definite Percentage Composition, Solutions of, Edgar Richards,	3
Tables,	4
Detected by Photographs,	506
Developers, Commercial, Hydrochinone,	140
Concentrated,	141
Compound Eiko-Hydro,	141
Latest Rapid,	141
Developer for Snapshot Exposures,	142
Developers for Lantern Plates, . .	142
Developer, Combined,	432
Development with Acid Solutions, August and Louis Lumiere,	151

- Development of the Picture Idea, 285
 Diamidophenol, *Andresen's*
 Formula, 142
 Diffused Definition, To Obtain, 547
 Draper, Mrs. Prof., Quoted, 194
 Drawings, To Mount, 93
 Dry Plates, American, 471
- E**ARLY Daguerreotype Days
 (Illustrated), J. F. Sachse, 369
 Eastman Prizes, The, 292
 Ebonizing Wood, 288
 Eclipse Photographs, The, . . 379
 Eder, Dr. Jos. M., New Book, . 484
 Editorial Dropshutter, . 38, 137,
 189, 231, 283, 428, 470, 526, 572
 Ehrmann, Prof. Charles, Men-
 tion of, 340
 Eikonogen, For Density, . . . 44
 Electric Spark Photography, . 97
 Electrical Wonder, Another (Il-
 lustrated), 316
 Elementary Optics (Illustrated),
 J. F. Sachse, . . 181, 224,
 274, 319
 Elementary Stereography, Thos.
 Bedding, 493
 England, J. Desire, Paper by, . 281
 English Patents, 419
 Essig, George E., Illustration by, 549
 Exhibition, Catalogue of, . . . 217
 Exhibition Echoes, 285
 Exhibition, The Sixth Joint, . . 212
 The Sixth Annual Joint, . . . 50
 Sixth Joint, Awards, 218
 The Lessons of, J. F. Sachse, 197
 Expensive Review, An, 428
 Eye, The, Past and Present, . . 178
- F**AD, A New, 89
 Faded Silver Prints, Re-
 storing, 287
 Ferro-Prussiate Prints, Black, . 236
 Black Tones in, 480
- Films, English, 57
 Enlarging, 481
 Light Proof, 526
 Orthochromatic, As *persion*
 Upon, 54
 Fire, Studio Destroyed, 334
 Fish Oils, 442
 Fish, The Propulsion of, . . . 166
 Fixing Agent, A New, R. Ed.
 Liesegang, 437
 Compounds, Commercial, . 141
 and Toning Cartridges, Com-
 mercial, 141
 Flash-Light System, 527
 Fluoreal, 531
 Flying Machines, 575
 Focal Plane Shutter, The Latest, 115
 Focusing, Ellerslie Wallace, . 201
 Foggy Plates, Restoring, W. B.
 Batton, 303
 Formulæ, Metol Developer, . . 22
 Pin-Hole Photography, . . . 26
 Andresen's Diamidophenol, 142
 Formula for Intensification, . . 271
 Formula, Ivorine Rolland, . . 378
 Formula for Reducin, 430
 Frilling, 380
 Frost Pictures, Artificial, . . . 241
 Frontispiece, February, 87
- G**ALLIC ACID, Conversion of, 44
 Gelatino-Chloride Papers, . 565
 Gelatine Dry Plates, Formula for, 281
 Gilt Frames, To Remove Tarnish
 from, 70
 Goddard, Dr. Paul Beck, Por-
 trait of, 309
 Notice of, 328
 Mention of, 369
 Gold in Potassium Cyanide, So-
 lution of, 288
 Graduates, Unbreakable, . . . 290
 Gutekunst, F., Illustration by, . 293

- H**AND CAMERAS, Use and Abuse, 131
- Hand Camera, The Influence of, Walter D. Welford, . . . 247
- Mental and Physical Influences, 253
- Hand Cameras, To Blacken, . 238
- Hanging Pictures, 43
- Heliochromoscope, The (Illustrated), F. E. Ives, . . . 350
- Heliochromy, Composite, Medal for, 15
- F. E. Ives, 82
- Dr. H. W. Vogel, 82
- Leon Vidal, 82
- Heliochromy, Lumiere's Application of, 382
- Hemperley, Illustration by, . . 485
- Holman, D. S., The Microscope, 233
- Honor, A Well-Deserved, . . 15
- Hoppin, Prof. J. M., Paper by, 348
- Hough, Prof. Geo. W., Paper by, 514
- Human Body, Facts About, . . 434
- Hypo, Manifold Use of, . . . 192
- Hy-Jenny-Kins, 40
- I**LLUSTRATION, The Old Homestead, . . . Frontispiece
- Illustration, Flash-Light Picture, 53
- The Old Apple Woman, . . . 69
- Automatic Water Stills, . . . 72
- Winter Scene at Niagara, . . 101
- Parvin Tele-Photo Objective, 149
- Two Rosebuds, 197
- By J. M. Brainerd, 229
- Petsch of Berlin, 229
- W. G. C. Kimball, 230
- J. Landy, 230
- E. Moegle, 231
- Loescher & Petsch, 231
- C. S. Bateman, 232
- Frank Thomas, 232
- The Pennsylvania State Building, 245
- Parvin Tele-Photo Lens, . . . 261
- The Old Liberty Bell, 293
- Portrait of Dr. Paul B. Goddard, 309
- Karl Handle, On Omega Paper, 341
- Balloon Photography, 357
- "Buffalo Bill," Lithium Paper, 389
- A Seasonable Subject, by Levytype Co., 437
- Flash-Light Interior, 485
- The Gilpin Gallery, 533
- A Gleam of Sunlight, 549
- Important Decision, An, . . . 492, 555
- In Black and White, 580
- India-Rubber, Action of Metals and Acids on, 459
- Ingersoll, Ernest, Paper by, . . 19
- Ink, Typewriter, 478
- Copying, 478
- Intensification, Theory and Practice of, 270
- Formulae for, 271
- Intensification of Gelatine Prints, 379
- Intensification, Theory and Practice of, J. H. Baldock, . . . 208
- Intensification, Metol, 486
- Rapid, J. F. Sachse, 485
- In the Twilight Hour, 195, 242, 290, 435, . . . 483
- Interference Bands, 477
- International Exhibition, Hamburg, 386
- Iodine Starch, 180
- Ives, F. E., Honored, 15
- Composite Heliochromy, . . . 82
- from German Standpoint, . . . 231
- Paper by, 350
- New Venture, 522
- Ives on Lumiere-Lippmann, . . 572
- Ivory Rolland, Formula, . . . 378

- J**APAN Society, Catalogue of, 338
- K**ALONA PAPER, Toning
 Baths, 36
 Kinetograph, The, 333
 Kleptomaniac, A Boy, 476
 Knowlton, George, Paper by, . 76
 Kodak Victory, A, 243
 Koehler, Prof. S. R., Mention
 of, 502
- L**ANGENHEIM, WM., Early
 Advertisements, 373
 Lantern Manipulation, Hints on, 439
 Lantern Plates, Developer for, . 142
 Lantern Slides, Wanted, . . . 41
 Largest Picture at World's Fair, 339
 Lea, M. Carey, Paper by, . . . 167
 Lead Pencil Sketches, Reproduc-
 tion of, 103
 Lead Toning Bath, 289
 Leaves, How to Get a True Col-
 ored Picture, 308
 Lenses, How to Preserve, . . . 81
 Chart for Testing, 99
 Lenses Stolen, 138
 Lenses, Long-Focus, in Land-
 scape Work, X. Smith, . . . 205
 Less Praise, More Art, Charles
 Howell Miller, 73
 Levytype Co., Autoglyphic Re-
 production, 437
 Lick Observatory, Night at, . .
 Life and Character Studies, . . 251
 Lighting, A New Mode of, X.
 Smith, 345
 Linear Perspective, X. Smith, . 488
 Light and Disease, 469
 Lindsay, W., Paper by, 510
 Literary and Business Notes, 52,
 99, 196, 243, 290, 338, 435,
 484, 533
 Lithia, 531
- Lithium Paper, Illustrations on, 429
 London Camera Club, 239
 Lumiere-Lippmann Results, F.
 E. Ives, 541
 Lunar Photography, 268
- M**ACLEAN, Hector, Paper
 by, 29
 Maclaurin, Paper by, 161
 Make Haste Slowly, X. Smith, 443
 Manuscript Lantern Slides, . . 472
 Marble, To Print On, 578
 Marny, Duc de, Mention of, . . 179
 Mayall, Jabez, Daguerreotypes
 by, 371
 Meehan, Wm. E., Illustrations
 by, 17
 Medals, The Plague of, Hector
 Maclean, 29
 Medals, Discussion About, . . 138
 Metol, Description of, 22
 Developer for Positives, . . . 24
 Intensifier, Dr. J. M. Eder, . . 140
 Meteor Photographed, 93
 Metric Equivalents, 384
 Microphotography, Orthochro-
 matic, 480
 Miller, Chas. Howell, Paper by, 73
 Minneapolis Camera Club, . 51,
 97, 194
 Mineral Adulteration of Paper, . 129
 Mineral Filling in Paper, . . . 66
 Modern Science, Conquests of, . 160
 Mountants, Gelatine, 180
 Concerning, Chas. Maclaurin, 161
- N**ATURE'S MIMICRY, 446
 Nature's Photography, 473
 Negatives and Plates, Proper
 Handling of, 76
 To Reproduce from Paper
 Prints, 167
 Negatives Found, 527
 Nitro-Metals, 335

Note Paper, New, 47
 Newark Camera Club, 239

OBJECTIVE, A New Tele-

Photo, Albert B. Parvin, 149
 Odd Ways of Making a Living, 333
 Oil Paintings, Reproduction of, 104
 Old Apple Woman, 87
 Old Homestead, Intaglio Print, 1
 Old Liberty Bell, 328
 Omega Picture, Our, 360
 Optical Lantern, Novel Use of, 233
 Orthochromatic Photography,
 Practical Application of, J.
 Carbutt, 407
 Photography, 235

PANORAMIC CAMERA, A

New, 471
 Paper Stock, Adulteration of, J.
 F. Sachse, 65
 Paramidophenol, 531
 Parvin, Albert B., Paper by, . . 149
 Illustration by, 261
 Mention of, 315
 Patents, Photographic, . . 100,
 244, 340, 532
 Pedantry, 191
 Pennsylvania at World's Fair, 328
 Phenol, Action of Light on, . . 238
 Philadelphia's Share in the De-
 velopment of Photography, 42
 Philosophy of Art, 348
 Photo-Dyeing, 223
 Etching, 234
 Keramik, 243
 Corrector, A, 290
 Engraving, Treatment of Or-
 iginals for, 358
 Xylography, 382
 Telegraphy, Prof. W. W.
 Tacques, 393
 Mechanical Reproduction, The
 First, J. F. Sachse, . . . 502

Mechanic Print Procedure,
 J. Husnik, 519
 Chromotype, 573
 Photogrammetry, 572
 Photographic Hints and Formu-
 læ, . 44, 140, 235, 287, 378,
 430, 477, 530, 577
 Scissors and Paste, . 88, 332,
 433, 472, 575
 Medals, 32
 Society of Japan, . . 50, 193,
 240, 286
 of Philadelphia, 48, 193, 240,
 286, 329
 Communication from, . . 48
 Notice of, 329
Times, Quoted, 55
 Objectives, Care of, 112
 Exhibition, National, 127
 Work, 137
 Patents, 148
 Relics, 177
 Work, Volume I., 191
 Papers at the World's Fair, . 279
 Mount, A Novel, 289
 Objective, The, J. F. Sachse, 309
 Tour, A, 335
 Weather, Ellerslie Wallace, . 341
 Society of Great Britain, . . 387
 Catalogue of, 436
 Congress in London, 471
 Telescope, The Bruce, . . . 487
 Outing, A, 528
 Society of Philadelphia, A
 New Departure, 579
 Photographing An Active Vol-
 cano, 518
 Unknown Dead, 327
 Upon Boxwood, 477
 Photographers, Short-Sighted, . 39
 Photographer, Fiendish Act of, 90
 Photographer's Advice, A, . . 233
 Photographer, The Good, . . 333

Photographers' Association, 13th	Tints, Warm-Toned,	431
Convention,	Platinotypes, Uranium Toning,	431
Prizes,	Portrait Study on Lithium Paper,	389
Officers,	Posing and Illumination, E. M.	
Photographs, Fine,	Estabrooke,	453
Fine Cabinet,	Positives, Metol Developer for, 24	
Photograph Frames, Quaint,	Reversed from the Originals,	
Have Ready,	M. Balagny,	164
Photographs, Fine Specimens,	Postal Service, Growth of,	474
192,	Practical Hints,	44
Photograph, The Largest,	Printing Process, A Red,	235
Photographs in Natural Colors,	Prints, Black, Ferro-Prussiate,	236
Leon Warnerke,	Prize Offer, A,	331
Without Objective,	Prizes Offered,	336
Photography, Pin-Hole, J. Favre	Proprietary Compounds,	140
Brandt,	Prosperous Photographer, A,	241
A Perversion of,	Protection to the Eyes,	504
Under Water,	Pyro Stains,	531
Electric Spark,		
Statuesque,	R AINBOW in the Camera,	
Scientific,	The,	313
Thumb,	Rapid Printing on Ordinary Al-	
Sounds of Vowels,	bumenized Paper,	550
Novel Application of,	Rau, W. H., Illustration by,	101
Ethnological,	Reducin, A New Developer,	430
and Art,	Removing Yellow and Green Fog,	577
Orthochromatic,	Reproduction of Pencil Sketches,	
Interesting Use of,	Oil Paintings, and Dag-	
Lunar,	uerreotypes,	103
The Center of,	Resignations,	41
Official, at World's Fair,	Restoring Faded Silver Prints,	287
Isochromatic, G. Cramer,	Restraining, Dr. J. M. Eder,	428
Pictures, Decorative Use of,	Retouching, William Parry,	299
Framing of,	Pencil,	521
Pin-Hole Photography, J. Favre	Richards, Edgar, Tables for So-	
Brandt,	lutions of Definite Percent-	
Plates and Negatives, Proper	age Composition,	3
Handling of, George Knowl-	Automatic Water Stills,	71
ton,	Paper by,	118
Platinum Patents, Expired,	Rolfe H. Parker, Illustrated by,	53
Residues,	Rosetta Stone, The,	337
Printing,	Ruthenium Red,	412
Toning Bath for Silver Prints,	Rust, To Remove from Steel,	46

- SACHSE, J. F.**, Papers by,
 65, 197, 261, 384, 486, 502
 Notes on Amidol, 155
 Elementary Optics, 181
 Translation by, 437
 Illustration by, 533
 Safe Dark Rooms, 413
 Salutory, 1893, 1
 Saxton, Joseph, Mention of, . . 369
 Scheele, Anniversary, 240
 Seavey & Fowler, Illustration
 by, 197
 Seaside Incident, A, 433
 Seismology, Application of Pho-
 tography to, Prof. W. K.
 Burton, 170
 Self-Praise No Recommendation,
 X. Smith, 324
 Sensitiveness of Photographic
 Plates, 514
 Sharp, Prof. Benjamin, Mention
 of, 518
 Shaskin Sowa, The, 471
 Shutter and Diaphragm, Com-
 bined, 47
 Silver Chloride, Action of Light
 on, 45
 To Prevent Blackening, . . . 47
 Basic Salts of, M. Carey Lea, 107
 Stains on Plates, 289
 Sixth Annual Exhibition, Circu-
 lar, 143
 Rules, 144
 Smith, Xanthus, Papers by, . 7,
 67, 123, 205, 255, 324, 345,
 413, 488
 Snapshots at Royalty, 2
 Developer for, 142
 Without a Permit, 335
 Snapschotte, J. Focus, Papers by,
 32, 265, 465
 Snelling, H. H., Appeal for, . . 188
 Second-Hand Sponges, 461
 Society Notes, . 143, 193, 239,
 286, 386, 580
 Sodium Sulphate, 287
 Some Additional Notes on Ami-
 dol, J. F. Sachse, 155
 Spectrum of Comet, 14
 Splendid Business Structure, . 338
 Sport Without a Gun, Ernest
 Ingersoll, 19
 Standard Screws, 435
 Statuesque Photography, . . . 136
 Stellar Spectrum Analysis, . . 434
 Stone, Witmer, Paper by, . . . 163
 St. Paul Camera Club, 239
 Street Characters, X. Smith, . . 67
 Strengthening Large Surfaces
 of Negatives, 460
 Studies, Life and Character, . . 251
 Studio Robbed, 332
 Study in Posing, Omega Print, . 341
 Submarine Photography, Auto-
 matic, J. Focus Snapp-
 schotte, 465
 Suggestions, Practical, 77
 Sunbeam, The Sound of, 206
- TACQUES, PROF. W. W.**,
 Paper by, 393
 Talc Industry, The, 128
 Talkee-Talkee, No Workee,
 Walter D. Welford, 467
 Taylor, Geo. M., Obituary, . . 388
 In Memoriam, 573
 Telautograph, The, 434
 Tele-Photo-Lens, The Parvin, J.
 F. Sachse, 261
 Tele-Photo Principle, The, . . 233
 Tele-Photo Experiment, 261
 Tele-Photographic Lens, Prof.
 W. K. Burton, 293
 Tele-Photography, Comparative
 Test, Prof. W. K. Burton,
 324, 328

- Temperance Photography, . . . 433
 Thiosinamin, 437
 Tides, 563
 Tidiness in Studio, 122
 Toning and Fixing Bath, Combined, 237
 Toning Bath for Kalona Paper, 36
 Toning Bath, Celloidin, . . . 237
 Combined, 289
 Lead, 289
 Platinum, for Printing-Out Films, 380
 Toning and Fixing Bath, Without Sulphocyanide, . . . 479
 Transparency Making for the Lantern, 362
 Triennial Exhibition, 529
 Trokonet, The, 233
 Turkeytown Hypo Club, New Departure, J. Focus Snappschotte, 32
 The, J. Focus Snappschotte, 265
 Typewriter Ink, 478
- ULTRA-VISIBLE** Measurements, 417
 University Lecture Course, . . 96
 Unpleasant Familiarity, . . . 428
 Unsuspected Sources of Failure, 510
 Uranium Toning, 381
 of Platinotypes, 431
- VALLEY FORGE**, Booklet of, 339
 Variety, Individuality, and Invention (Illustrated), . 228
 Variable Stars and Photography, 474
 Varnish for Films, An Aqueous, 353
 Ventilation in the Dark Room (Illustrated), 118
- Vibration, To Diminish, . . . 95
 Vidol, Leon, Composite Heliochromy, 82
 Victoria Disaster, The, . . . 473
 Vogel, Dr. H. W., 82
 Volcanic Phenomena, Application of Photography to, Prof. W. K. Burton, . . . 170
 Vowels, Sound of, Photographed, 194
- WALLACE, ELLERSLIE**, Paper by, 201
 Warnerke, Leon, Paper by, . . 552
 Washington. Telescope Lens, Removal of, 92
 Wastes, What and How to Save Them, 394
 Water-Proof Glue, 288
 Water Stills, Automatic, Edgar Richards, 71
 Welford, Walter D., Papers by, 247, 467
 Wilson, Dr. Edward L., Paper by, 228
 Winter Scene at Niagara, . . . 139
 Wolf, Dr. Max, Mention of, . . 233
 Wood Pulp as Absorbent, . . . 31
 World's Fair Congress of Photography, Editorial, . . . 189
 Congress Auxiliary, 398
 Proceedings at, 399
 Columbian Commission, . . 187
 Fair, The, 245
 Fair, Photographic Papers of, 279
 Fair Photography, 302
 Fair, Official Photography at, 367
 Wood, James F., Illustration by, 69

